

**Today** Review. Homework resubmissions due.

**Next class** Review.

1. List the members of your group below. Underline your name.
2. Constructively prove or disprove: The language of well formed CSV files (discuss details) is regular.
3. Use the polynomial time reduction from the proof of Theorem 7.32 to map the following SAT instance to an instance of CLIQUE. Depict corresponding solutions or explain why no solution exists.

$$(w \vee x \vee y \vee \bar{z}) \wedge (\bar{w} \vee \bar{x} \vee y \vee \bar{z}) \wedge (w \vee x \vee \bar{y} \vee z) \wedge (w \vee \bar{x} \vee y \vee \bar{z}) \wedge (\bar{w} \vee x \vee \bar{y} \vee z)$$

4. Reduce the SAT instance of Question 3 to a VERTEX-COVER instance using the reduction of Theorem 7.44.

5. Reduce the SAT instance of Question 3 to a SUBSET-SUM instance using the reduction of Theorem 7.56.